# This Page Is Inserted by IFW Operations and is not a part of the Official Record

### BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

## IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Jason A. A. West, et al.

**Confirmation No.:** 

**Application No.: 10/701,097** 

Group Art Unit: Not Yet Assigned

Filing Date: November 4, 2003

**Examiner: Not Yet Assigned** 

MICROFLUIDIC INTEGRATED MICROARRAYS FOR BIOLOGICAL **DETECTION** 

DATE OF DEPOSIT: February 4, 2004

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA,

Jeffrey H. Rosedale **REGISTRATION NO.: 46,018** 

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

### INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

In accordance with § 1.97(b), since this Information Disclosure Statement is  $\bowtie$ being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

	the above identified	application as set forth in § 1.491, before the mailing date
	of a first Office Act	tion on the merits of the above-identified application, or
	before the mailing d	late of a first Office Action after the filing of request for
	continued examination	on under § 1.114, no additional fee is required.
	In accordance with §	§ 1.129(a), this Information Disclosure Statement is being
	filed in connection	with  the first or  second After Final Submission,
	therefore:	
•	☐ Certif	fication in Accordance with § 1.97(e) is attached; or
	The fe	ee of \$180.00 as set forth in § 1.17(p) is attached.
	In accordance with	§ 1.97(c), this Information Disclosure Statement is being
	filed after the period	set forth in § 1.97(b) above but before the mailing date of
	either a Final Action	under § 1.113 or a Notice of Allowance under § 1.311, or
	before an action that	otherwise closes prosecution in the application, therefore:
		Certification in Accordance with § 1.97(e) is attached;
		or
		The fee of $$180.00$ as set forth in $$1.17(p)$ is attached.
	In accordance with	§ 1.97(d), this Information Disclosure Statement is being
	filed after the mailin	ng date of either a Final Action under § 1.113 or a Notice
	of Allowance under	§ 1.311 but before, or simultaneously with, the payment
	of the Issue Fee, the	erefore included are: Certification in Accordance with §
	1.97(e); and the subr	nission fee of \$180.00 as set forth in § 1.17(p).

	Copie	es of each of the references listed on the attached Form PTO-1449 are
	enclo	sed herewith.
$\boxtimes$	Copie	es of references listed on the attached Form PTO-1449 are enclosed
	herew	rith
$\boxtimes$	Copie	es of references listed on the attached Form PTO 1449 are not required to
	be su	bmitted pursuant to the June 30, 2003 recent revisions to 37 CFR §
	1.98(a	a)(2)(i).
	EXCI	EPT THAT:
		In view of the voluminous nature of references [list as appropriate],
		and the likelihood that these references are available to the Examiner,
		copies are not enclosed herewith.
		In accordance with § 1.98(d), copies of the following references listed
		on the attached Form PTO-1449 are not enclosed herewith because
		they were previously cited by or submitted to the U.S. Patent and
		Trademark Office in patent application(s) for which a claim for priority
		under 35 U.S.C.§ 120 have been made in the instant application:
		Copies of references [list as appropriate] listed on the
		attached Form PTO-1449 were previously cited by or submitted
		to the Patent and Trademark Office in prior Application No.
		, filed .



-4-

**PATENT** 

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

There are no listed references which are not in the English language.

Date: February 4, 2004

Registration No. 46,018

WOODCOCK WASHBURN LLP

· One Liberty Place - 46th Floor

Philadelphia, PA 19103 Telephone: (215) 568-3100

Facsimile: (215) 568-3439

© 2004 WW



Ŕ	ARAN BODENARY	λ
C115 30	FEB 0 9 2004	PATENT
12	3910	/

Form PTC	0-1449 Modified	Docket No. SNL-0004	Application No. 10/701,097	
Cited	nt and Publications by Applicant sheets if necessary)	Applicant Jason A. A. West, et al.		
	ment of Commerce Trademark Office	Filing Date November 4, 2003	Group Not Yet Assigned	
ОТНЕ	R DOCUMENTS (Includ	ling Author, Title, l	Date, Pertinent Pages, Etc.)	
1	Alarie, J.P. et al., "Electr Micro Total Analysis Sys		ed Hydraulic Pumping on Microchips",	
* . 2	November 3-7, 2002, Vol ISBN: 1-4020-1011-7, (2	r: Proceedings of the μTAS Symposium, ademic Publishers, Hingham, MA,		
3	Cheek, B.J. et al., "Chem Flow-Thru Chip, a Three 73, 5777-5783	ction for Hybridization Assays on the ochannel Biochip", Anal Chem, 2001,		
4		Length in Bacteriophage T4. Isolation utants", J. Virol, 1973, 12(2), 374-385		
5	Gerritsen, V.B. "Baneful	Beans", Protein Sp.	otlight, 2003, 31, 2 pages	
* 6 Houtoff, H. et al., "Platinum-containing Compounds, Methods for their Pro an Applications Thereof", 1999, Kreatech Diagnostics: Netherlands			· -	
7 Kustos, I. et al., "Capillary Electrophoretic Analysis of Wild Type and Mu Proteus penneri Outer Membrane Proteins", Electrophoresis, 2000, 21, 30				
8	8 Kustos, I. et al., "Protein Profile Characterization of Bacterial Lysates by C Electrophoresis", <i>Electrophoresis</i> , <b>1998</b> , 19(13), 2317-2323			
9	9 Panaro, N.J. et al., "Evaluation of DNA Fragment Sizing and Quantification by the Agilent 2100 Bioanalyzer", <i>Clinical Chemistry</i> , <b>2000</b> , 46(11), 1851-1853			
* 10				
EXAMINER DATE CONSIDERED				

<sup>\*</sup> A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner

© 2004 WW





Form PTO-1449 Modified			Docket No SNL-0004		Application No. 10/701,097	
			Applicant  Jason A. A. West, et al.			
	U.S. Department of Commerce     Patent and Trademark Office			e r <b>4, 2003</b>	Group Not Yet Assigned	
OTE	HER	DOCUMENTS (Includ	ing Author	, Title, Date, I	Pertinent Pages, Etc.)	
	11				e Expression Patterns with a	
	Complementary DNA Microarray", Science, 1995, 270, 467-470  12 Svec, F., "Porous Monoliths: The Newest Generation of Stationary Phases for Fand Related Methods", Recent Developments in LC Coulmn Technology, June 2-6  13 Yu, C. et al., "Monolithic Porous Polymer for On-Chip Solid-Phase Extraction Preconcentration Prepared by Photoinitiated in Situ Polymerization within a Microfluidic Device", Anal. Chem. 2001, 73, 5088-5096  14 Yu, C. et al., "Towards Stationary Phases for Chromatography on a Microchip: Molded Porous Polymer Monoliths Prepared in Capillaries by Photoinitiated in Polymerization as Separation Media for Electrochromatography", Electrophore 2000, 21, 120-127				on of Stationary Phases for HPLC	
					Polymerization within a 5096	
					pillaries by Photoinitiated in situ	
	"Agilent Technologies Launches AgBio Program with Introduction of Industr First Microarray to Include Genetic Probes from Two Species", May 15, 2003 pages					
	16	Welcome to MetriGenex http://www.metrigenix.co	_		of Microarrays,	
	17	"The Scientist, HANAA http://www.biomedcentra	to Aid Wea	pons Inspector		
	18		tion, http://www.kreatech.com/legal.html, May 14, 2003, 7			
	19		2, <u>http://ww</u>	w.kreatech.com	n/news/newsssc2.html, May 14,	
	20	Microfluids-Reversed Ch		romatography on for Chem/Bio Warfare Agent Detection, /microchem/microfluidics/chembiowar.html, 2 pages		
EXAMINER	•			DATE CONS	SIDERED	





Form PTO-1449 Modified	Docket No. SNL-0004	Application No. 10/701,097		
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)	Applicant  Jason A. A. West	Applicant Jason A. A. West, et al.		
• U.S. Department of Commerce Patent and Trademark Office	Filing Date November 4, 2003	Group Not Yet Assigned		
OTHER DOCUMENTS	(Including Author, Title,	Date, Pertinent Pages, Etc.)		
http://www.lbl.go 2 pages  22 "Microarrays:Ch http://www.ncbi.  23 Garland, B., M.S Science and Law http//www.psljou  24 Sandia seeks Cor Detection System	ipping Away at the Mysterinlm.nih.gov/About/primer/ris., J.D., "Biotechnics and Biotechnics an	es of Science and Medicine", microarrays.html, May 9, 2003, 11 page oterrorism", The Journal of Philospohy, bioethics_bioterrorism.cfm, 14 pages Hand-Held Chemical Analysis and ews-center/news-release/2003/mat-03, 3 pages		
EXAMINER	DATE	CONSIDERED		





Form PTO-1449 Modified				Docket No. SNL-0004	o.		
v	Cite	ent and Publication d by Applicant al sheets if necessar		Applicant Jason A. A. West, et al.			
U.S. Department of Commerce Patent and Trademark Office			Filing Date November 4, 2003	Group Not Yet Assig	•		
•		U.	S. PATENT	DOCUMENTS			
Examiner Initial		Document No.	Date	Name	Class	Subclass	
	25	4,908,112	03/13/90	Pace	204	299	
	26	5,132,012	07/21/92	Miura, et al.	210	198.2	
	27	5,194,133	03/16/93	Clark, et al.	208	299	
	28 5,571,410		11/05/96	Swedberg, et al.	210	198.2	
	29	5,580,990	12/03/96	Van den Berg, et al.	549	212	
	30	5,770,365	06/23/98	Lane, et al.	435	6	
	31	5,800,690	09/01/98	Chow, et al.	204	451	
	32	5,824,204	10/20/98	Jerman	204	601	
	33	6,001,229	12/14/99	Ramsey	204	451	
	34	6,133,038	10/17/00	Houthoff, et al.	436	84	
	-	FOR	EIGN PATI	ENT DOCUMENTS			
Examiner						Translation	
Initial		Document No.	Date	Country	YES	NO	
					· ·		
		·				-	
EXAMINER				DATE CONSIDERE	'n		





Form PTO-1449 Modified				Docket No. SNL-0004		Application No. 10/701,097		
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office				Applicant Jason A. A. West, et al.				
				Filing Date Group November 4, 2003 Not Yet Assigned		gned		
		U. 9	S. PATENT	Γ DOCUMENTS	<u> </u>			
Examiner Initial		Document No.	Date	Name	С	lass	Subclass	
•	35	6,316,608 B1	11/13/01	Reynolds, et al.	53	36	22.1	
	36	6,472,443 B1	10/29/02	Shepodd	52	21	63	
	37	6,475,364 B1	11/05/02	Dubrow, et al.	20	04	455	
	38	6,499,499 B2	12/31/02	Dantsker, et al.	13	37	1	
	39	6,551,784 B2	04/22/03	Fodor, et al.	43	35	6	
	40	6,567,163 B1	05/20/03	Sandstrom	35	56	317	
	41	6,664,104 B2	12/16/03	Pourahmadi, et al.	43	35	288.6	
	42	2001/0008212 A1	07/19/01	Shepodd, et al.	20	04	451	
	43	2002/0095073 A1	07/18/02	Jacobs, et al.	60	00	300	
	44	2003/0027354 A1	02/06/03	Geli	43	36	178	
<u> </u>	45	2003/0075491 A1	04/24/03	Griffiths	21	10	198.2	
	46	10/633,871	08/04/03					
· · · · · · · · · · · · · · · · · · ·	47	60/452,985	03/06/03					
<del>-</del>	<del>'</del>	FORE	IGN PATE	ENT DOCUMENTS		<del></del>		
Examiner Initial		Document No.	Date	Country		Translation YES NO		
EXAMINER				DATE CONSIDERE	D			